

CLAIMS

1. A method for accessing a radio communication system having a plurality of radios, comprising the steps of:

- 5
- Sub
a1
- (a) separating the plurality of radios into two or more groups;
 - (b) gathering a communication statistic on the plurality of radios; and
 - (c) reconfiguring the grouping of radios based on the communication statistic gathered in step (a).

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2. A method as defined in claim 1, further comprising the step of:

(d) allowing access to the radio communication system based on the grouping of the radios.

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Sub
B1

3. A method as defined in claim 1, wherein the communication statistic gathered in step (b) comprises the average channel usage by each of the plurality of radios.

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4. A method as defined in claim 1, wherein the communication statistic gathered in step (b) comprises the number of channel accesses per unit time by each of the plurality of radios.

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Sub
B1

5. A method as defined in claim 1, wherein the communication statistic gathered in step (b) comprises the priority of each of the plurality of radios.

6. A method as defined in claim 1, wherein the communication statistic gathered in step (b) comprises the average received signal strength of each of the plurality of radios.

7. A method as defined in claim 2, repeating steps (b) through (d) periodically.

8. A method as defined in claim 1, wherein the two or more groups of
5 radios established in step (a) can access the radio communication system at
specified times which are different for each of the two or more groups.

9. A method as defined in claim 1, wherein step (b) is performed by a radio communication system controller.

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10. A method as defined in claim 1, wherein step (b) is performed by each of the plurality of radios.

11. A method for accessing a synchronized radio communication system having a plurality of radios, comprising the steps of:

- 5
- Sub A2
- (a) separating the plurality of radios into two or more groups;
 - (b) gathering a communication statistic on the plurality of radios;
 - (c) reconfiguring the grouping of radios based on the communication statistic gathered in step (a); and
 - (d) allowing access to the radio communication system by each of the two or more groups of radios at different predetermined periods of time.

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12. A method as defined in claim 11, wherein the radio communication system comprises a time division multiple access radio communication system.

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13. A method as defined in claim 11, wherein steps (b) and (c) are repeated periodically.

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Sub B1

14. A method as defined in claim 11, wherein the communication statistic in step (b) is gathered by a central radio communication system resource.

15. A method as defined in claim 11, wherein the communication statistic in step (b) is gathered by each of the plurality of radios.

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16. A method as defined in claim 11, wherein steps (b) and (c) are performed at predetermined periods of time.

add a3